

## 四川及湖南蹄盖蕨科三新种\*

朱维明

(云南大学地植物研究室)

THREE NEW SPECIES OF ATHYRIACEAE FROM  
SICHUAN AND HUNAN

CHU WEI-MING

(Laboratory of Geobotany, Yunnan University)

南川短肠蕨 新种 图1: 1—4

**Allantodia nanchuanica** W. M. Chu, sp. nov.

Species *A. simili* W. M. Chu affinis, differt habitu graciliore, rhizomate apice paleis lineari-lanceolatis laxe obtecto, pinnis basalibus inaequalibus (i. e. pinnulis posterioribus longioribus), pinnulis basi plerumque inaequalibus, rhachillis costisque supra glandulis carentibus.

Tota planta 60—150 cm alta. Rhizoma decumbens usque erectum (raro repens), apice paleis atro-brunneis lineari-lanceolatis angustissime nigro-marginatis denticulatis laxe obtectum. Frondes approximatae vel caespitosae (raro distantes); stipes lamina brevior, 2—5 mm diametro, pallide viridis, basi paleis sparse obtectus, sursum ad rhachim spinulis verruculisque in vivo viridibus carnosisque sparse instructus; lamina late deltoideo-ovata, 50—90 cm longa 30—50 cm lata, bipinnata; pinnae 8—10-jugae, alternae (raro suboppositae), ascendentes, inframediales late oblongo-lanceolatae, ad 33 cm longae 15 cm latae, petiolis ad 2 cm longis, pinnatae; pinnulae usque ad 8—10-jugas, alternae, patentes, lanceolatae, usque 8 cm longae 2 cm latae, apice acuminatae, basi truncatae inaequalesque, sessiles, pinnatilobatae usque pinnatifidae; segmenta pinnulae usque 10-juga, approximata, paulo ascendunt, apice rotunda, integra vel crenulata; venae in segmento pinnatae, venulis usque 5—7-jugis, ascendunt, simplicibus, aliquot furcatis; pagina frondis textura in sicco tenuiter chartacea, viridis, subtus pallidior, utrinque fere glabra, rhachidi rhachillisque pallide viridibus. Sori lineares, usque 4-jugi pro segmento, e basi venulae  $1/2$ — $1/4$  viae ad marginem pro-  
tenti; indusia brunnea, membranacea, integra. Sporae reniformes, laeves.

Sichuan austr.-orient.: Nanchuan, Jinfo Shan, Sanhui, Honghegou, by stream side, on the margin of mixed forest, in limestone gorge, alt. 750 m, 28. IX. 1977, W. M. Chu et Z. Y. Liu 7615, 7616, 7617 (Typus, YUNU), 7618, 7619, 7620; ibid. Sanhui, Yixiantian, by stream side, on the margin of mixed forest, in moist limestone gorge, alt. 650 m, 29. IX. 1977, W. M. Chu et Z. Y. Liu 7636.

\* 本文蒙秦仁昌教授审阅, 图承蔡淑琴同志绘制, 谨表谢意。

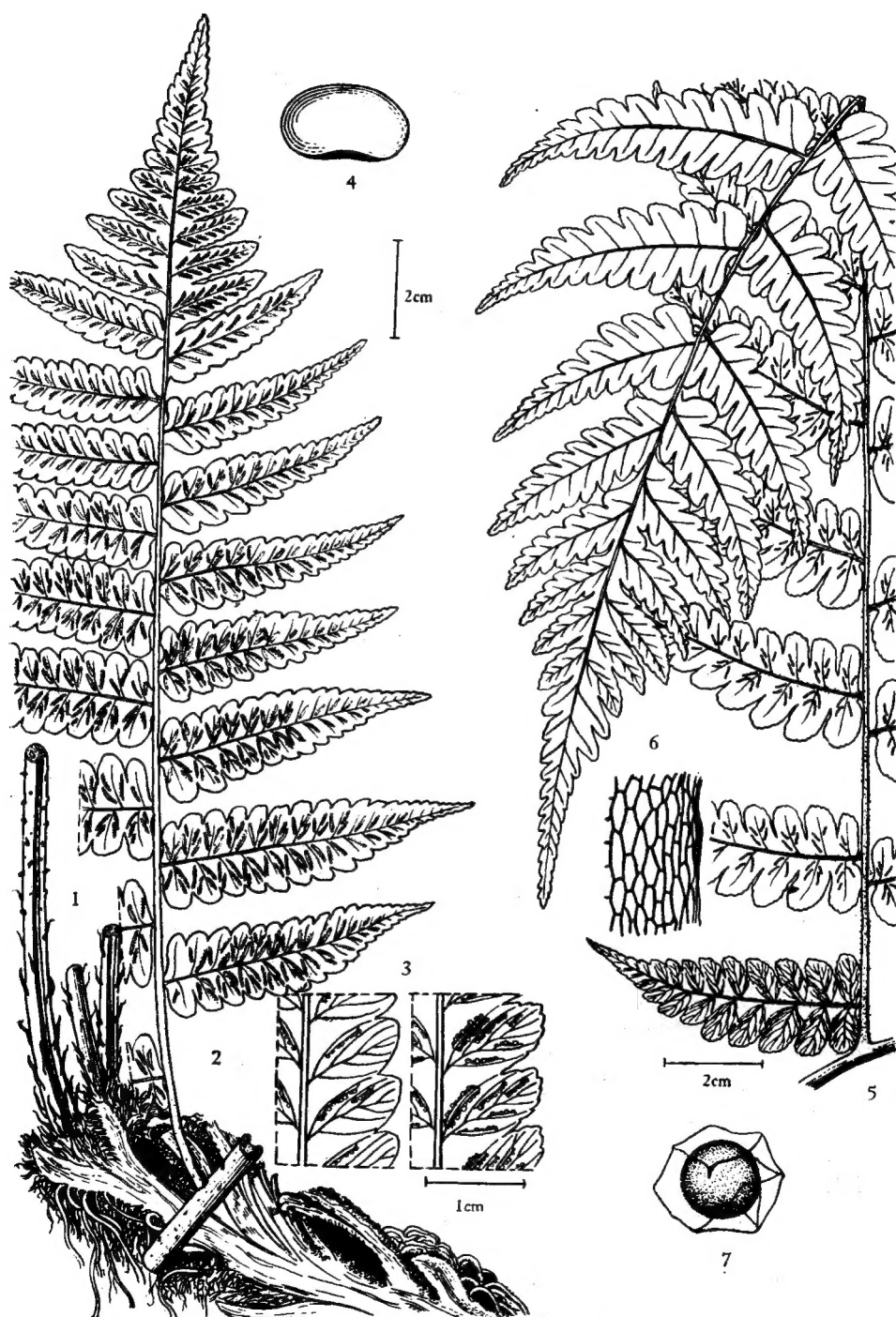


图1 1—4 南川短肠蕨 *Allantodia nanchuanica* W. M. Chu 1.根状茎及叶柄下部; 2.一个羽片; 3.小羽片的一部分,表示裂片、叶脉和孢子囊群形态; 4.孢子(放大)。5—7. 金佛山短肠蕨 *Allantodia jinshanicola* W. M. Chu 5.一个羽片; 6.叶柄基部鳞片的一部分(放大),表示中央的细胞显著较大; 7.孢子(放大)。

四川东南部: 南川, 金佛山, 三汇, 红河沟, 海拔 750 米, 生石灰岩峡谷杂木林缘溪边, 1977 年 9 月 28 日, 朱维明、刘正字 7615、7616、7617 (模式标本存云南大学地植物学研究室标本室)、7618、7619、7620; 三汇, 一线天, 海拔 650 米, 生潮湿石灰岩峡谷杂木林缘溪边, 1977 年 9 月 29 日, 朱维明、刘正字 7636。

本种近似 *A. similis* W. M. Chu, 区别在于形体较细瘦, 根状茎顶端的鳞片线状披针形, 不伏贴, 基部第一对羽片显著不对称 (即下侧小羽片显著较长), 小羽片基部通常不对称, 羽轴及中肋上面无腺体。

#### 金佛山短肠蕨 新种 图 1: 5—7

*Allantodia jinfoshanicola* W. M. Chu, sp. nov.

Species *A. hachijoensis* (Nakai) Ching affinis, a qua differt textura frondis in sicco tenuiter herbacea, cellulis paleae centralibus manifeste majoribus quam iis, marginalibus, soris in segmento costulae magis approximatis, sporis sphaericis.

Tota planta 1.4 m alta. Rhizoma decumbens, atro-brunneum, c. 2 cm diametro, apice paleis fuscis late lanceolatis integris dense obtectum. Frondes approximatae; stipes 65 cm longus, basi fuscus 5 mm diametro paleis persparse obtectus, sursum brunnescens vel stramineus, glaber; lamina triangularis, 75 cm longa, 65 cm lata, bipinnato-pinnatifida; pinnae 8-jugatae, alternae vel suboppositae, paulo ascendentes, inframediales late oblongo-lanceolatae, apice acuminatae, basi paulo angustatae, petiolulatae, inaequales, pinnato-pinnatifidae, infima major, 40 cm longa 15 cm lata, stipite ad 4 cm longo suffulta; pinnulae usque 10-jugae, alternae, fere patentes, lanceolatae ad 8 cm longae 2.5 cm latae, apice acuminatae, basi inaequales subtruncatae vel postice paulo cordatae, pinnatifidae vel pinnatipartitae, basales breviter petiolulatae; segmenta pinnulae usque 10-juga, paulo ascendunt, oblonga, apice rotunda, margine crenulata, basali anteriore saepe minore; venae supra inconspicuae, subter vix visibiles, venulis usque 7-jugis pro segmento pinnulae, ascendentibus, simplicibus vel bifurcatis aliquot pinnatis; pagina frondis textura in sicco tenuiter herbacea, supra atro-virens glabra, subtus viridis secus rachilam costamque glanduloso-pilosa. Sori lineares, in segmento costulae magis approximati, basalis anterior interdum diplazioides; indusia pallide brunnea, membranacea, subpersistentia. Sporae sphaericae, perisporiis conspicuis ac plicatis.

Sichuan austr.-orient.: Nanchuan, Jinfo Shan, Qingdaoping under mixed forest in valley, alt. 1500 m, rare, 26. IX. 1977, W. M. Chu et Z. Y. Liu 7554 (Typus, YUNU).

四川东南部: 南川, 金佛山, 强道坪, 海拔 1500 米, 生山谷杂木林下, 少见, 1977 年 9 月 26 日, 朱维明、刘正字 7554 (模式标本存云南大学地植物学研究室标本室)。

本种近似 *A. hachijoensis* (Nakai) Ching, 区别在于叶干后薄草质, 鳞片中央的细胞显著较大, 孢子囊群较接近主脉, 孢子圆球形。

#### 岳麓山假蹄盖蕨 新种 图 2

*Athyriopsis abbreviata* W. M. Chu, sp. nov.

Species *A. japonicae* (Thunb.) Ching affinis, differt lamina anguste elliptica, pinnis inferioribus semper gradatim paulo abbreviatis, sporodermatibus acute spinulosis.

Tota planta ad 55 cm alta. Rhizoma repens, ca. 2 mm diametro. Frondes distantes

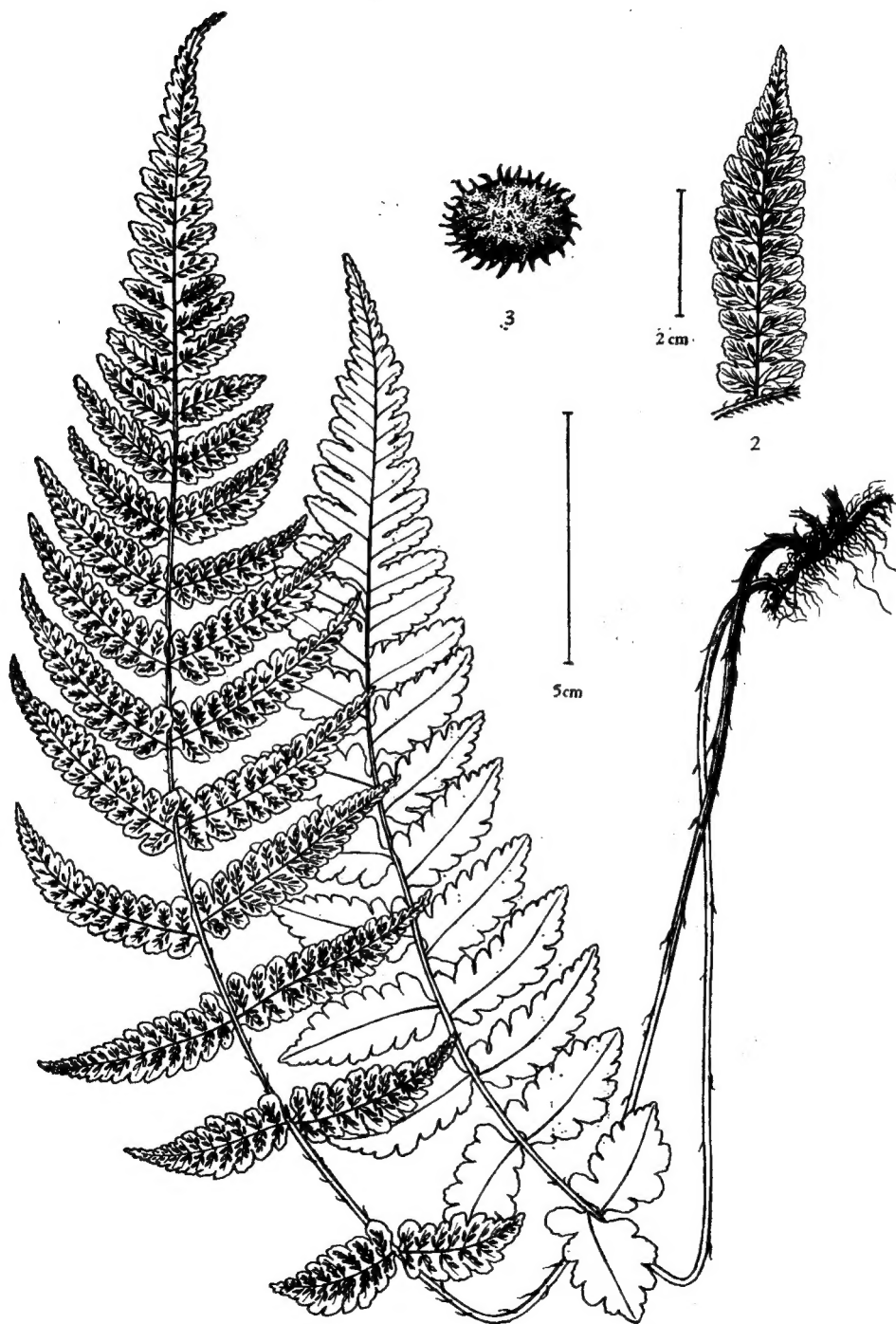


图2 岳麓山假蹄盖蕨 *Athyriopsis abbreviata* W. M. Chu,  
1. 植株外形; 2. 一个羽片; 3. 孢子(放大).

vel approximatae; stipes lamina brevior, in sicco saepe brunneus, basi 1—1.5 mm diametro, paleis tenuibus pallide brunneis late lanceolatis integris sparse obtectus; lamina anguste elliptica, apice acuminata, deorsum gradatim paulo angustata, 25—35 cm longa, medio 7—12 cm lata, pinnato-pinnatifida; pinnae 8—12-jugatae, sessiles vel subsessiles, pinnatifidae vel pinnatipartitae, inferiores gradatim paulo abbreviatae, patentes vel paulo reflexae, subovatae, 2.5—3.5 cm longae 1.5—2.5 cm latae, apice obtusae vel acutae, mediales paulo ascendentes, lanceolatae, ad 7 cm longae 2 cm latae, acuminatae; segmenta oblonga vel rectangularia, paulo ascendencia, approximata, apice truncata vel rotunda, margine repandula vel crenulata; venae in segmento pinnatae, venulis usque 5-jugis, furcatis vel simplicibus; pagina frondis textura in sicco tenuiter herbacea, supra opace viridis fere glabra, subtus pallidior secus rhachim costas venasque pilis articulatis crispisque sparse onusta. Sori breviter lineares, usque 3-jugi pro segmento, mediales, simplices vel basalis anterior saepe diplazioides; indusia pallide brunnea, membranacea, margine integra vel vix erosa. Sporae subreniformes, sporodermatibus acute spinulosi.

Hunan: Changsha, Yuelu Shan, by ditches on the margin of evergreen broad-leaved forest, alt. 90 m, 23. V. 1977, W. M. Chu 7000 (Typus, YUNU).

湖南：长沙，岳麓山，海拔 90 米，生常绿阔叶林林缘水沟边，1977 年 5 月 23 日，朱维明 7000（模式标本存云南大学地植物学研究室标本室）。

本种近似 *A. japonica* (Thunb.) Ching, 但叶片狭长椭圆形，中部以下的羽片无例外地逐渐略缩短，孢壁具尖刺状纹饰，故易区别。